ATTORNEY'S DOCKET NUMBER: 2002630-0012

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant

Liu, et al.

Examiner:

Serial No.:

10/051,644

Art Unit:

Filed:

January 18, 2002

For:

Screens and Assays for Agents Useful in Controlling Parasitic Nematodes

ASSISTANT COMMISSIONER FOR PATENTS B OX IDS WASHINGTON, DC 20231

Sir:

STATEMENT FILED PURSUANT TO THE DUTY OF DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants respectfully request consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

(Select A, B or C below)

A. [X] This Information Disclosure Statement has been filed: (check 1, 2 and/or 3 below)

- 1. [] within three months of the filing date of the above identified U.S. Patent application;
- 2. [] within three months of the filing date of the entry of the National Stage, as set forth in 37 C.F.R. §1.491, in an International application; and/or
- 3. [X] before the mailing date of the first Office Action on the merits in the above-identified application.

No fee or certification is required.

В.	[]	This	This Information Disclosure Statement has been filed more than three months				
		after	the filir	ng date of the present application and after the mailing date of this			
		first	Office A	Action, but before the mailing date of either a final action under 37			
		C.F.I	R. §1.11	3 or a Notice of Allowance under 37 C.F.R. §1.311.			
		(check 1 or 2 below)					
	1.	[]	The	fee of \$180 as set forth in 37 C.F.R. §1.17(p) is enclosed; or			
	2.	[]	Appl	Applicants hereby certify, as specified in 37 C.F.R. §1.97(e), that			
			(chec	(check a or b below)			
		a.	[]	each item of information contained in this Information Disclosure			
				Statement was cited in a communication from a foreign Patent			
				Office in a counterpart for this application not more than three			
				months prior to the filing of this Statement; or			
		b.	[]	no item of information contained in this Information Disclosure			
				Statement was cited in a communication from a foreign Patent			
				Office in a counterpart for this application or, to the knowledge of			
				the undersigned after making reasonable inquiry, was known to			
				any individual designated in 37 C.F.R. §1.56(c) more than three			
				months prior to the filing of this Statement.			
C	r 3	This	I Ca	stion Dividence Statement has been filed often the mailing date of			
C.	[]	This Information Disclosure Statement has been filed after the mailing date of					
		either a Final action under 37 C.F.R. §1.113 or a Notice of Allowance under 37					
		C.F.R. §1.311 and before payment of an Issue Fee.					
	1	(check 1, 2, and 3 below)					
	1.	[]		Applicant hereby certifies, as specified in 37 C.F.R. §1.97(e), that:			
			`	ck a or b below)			
		a.	[]	each item of information contained in this Information Disclosure			
				Statement was cited in a communication from a foreign Patent			
				Office in a counterpart for this application not more than three			
				months prior to the filing of this Statement.			

		υ.	L J	no item of information contained in this information Disclosure
				Statement was cited in a communication from a foreign Patent
				Office in a counterpart for this application or, to the knowledge of
	,			the undersigned after making reasonable inquiry, was known to
				any individual designated in 37 C.F.R. §1.56(c) more than three
				months prior to the filing of this Statement.
	2.	[]	A Petit	ion requesting consideration of the Information Disclosure
			Statem	ent is attached.
	3.	[]	The Pe	tition Fee of \$130 as set forth in 37 C.F.R. §1.17(i)(1) is enclosed.
PART	II - Info	ormatio	n Cited	
A.	[X]	The Applicant hereby makes of record in the above-identified application the		
		referen	nce(s) lis	sted on the attached form PTO-1449 (modified). The order of
		presen	tation o	f the references should not be construed as an indication of the
		import	ance of	the references.
B.	[]	The A ₁	pplicant	hereby makes the following additional information of record in the
		above-	identific	ed application:
PART	III: Ex	planatio	on of No	on-English Language References and Remarks Concerning Other
Inform	nation C	ited		
A.	[]	The fo	llowing	is a concise explanation of the relevance of each non-English
		langua	ge refer	ence listed on the attached form PTO-1449 (modified):
B.	[]	The fo	llowing	are remarks concerning the other information cited:

PART IV: Remarks

- A. [X] Copies of references (check 1 or 2 below)
 - [X] A copy of each of the references cited on the attached form PTO-1449 (modified) is enclosed;
 - 2. [] Copies of certain of the references cited on the attached form PTO-1449 (modified) are not enclosed because each of these references (indicated by asterisk) was previously cited by or submitted to the Office in a prior application, which prior application is relied upon for an earlier filing date under 35 U.S.C. § 120.
- B. [X] It is respectfully requested that: (check 1, 2, and 3 below)
 - 1. [X] The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
 - 2. [X] The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited patent(s) and publication(s) has (have) been fully considered by the Patent and Trademark Office during the examination of this application;
 - 3. [X] The citations for the patent(s) and publication(s) be printed on any patent which issues from this application.
- C. [X] By submitting this Information Disclosure Statement, Applicants make no representation that a search has been performed, of the extent of any search performed, or that more material information may not exist.

- D. [X] By submitting this Information Disclosure Statement, Applicants make no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).
- E. [X] By submitting this Information Disclosure Statement, Applicants make no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.
- F. [X] Notwithstanding any statements by Applicants, the Examiner is urged to form his or her own conclusions regarding the relevance of the cited reference(s).

An early and favorable action is hereby requested.

Please charge any additional fees or credit any overpayments to our Deposit Account No. 03-1721.

Respectfully submitted,

y: Monice R. Serber
Monica R. Gerber

Registration Number 46,724

CHOATE, HALL & STEWART Exchange Place 53 State Street Boston, Massachusetts 02109 (617) 248-5000

Dated: October 10, 2002

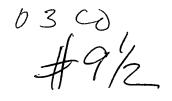
3466908_1.DOC

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner / For / Patents, Washington, D.C. 20231

-5-



ATTORNEY'S DOCKET NUMBER: 2002630-0012



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Liu, et al.

Examiner:

Serial No.:

10/051,644

Art Unit:

Filed:

January 18, 2002

For:

SCREENS AND ASSAYS FOR AGENTS USEFUL IN CONTROLLING

PARASITIC NEMATODES

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, DC 20231

Sir:

TRANSMITTAL LETTER

Enclosed are the following documents:

- 1. Form PTO-1449 (3 pages);
- 2. Information Disclosure Statement (5 pages);
- 3. Cited Art (29)
- 3. Return Postcard

If any additional fees are required to be paid or if any overpayment has been made, please charge same to Deposit Account No. 03-1721.

Respectfully submitted,

Monica R. Gerber

Agent for Applicant

Registration Number 46,724

Choate, Hall & Stewart Exchange Place 53 State Street Boston, MA 02109 (617) 248-5000

Dated: October 10, 2002

3467078_1.DOC

OCT 1 5 2002

Form PTO-14(2) (REV. 8-83)	S.S. Departm	nent of Commerce rademark Office	Atty. Docket:		olication No.
(REV. 8-83)	Patent and 11	2002630-0012 10/051,644			
INFORMATIO	N DISCLOSURE STATE	EMENT	Applicant: Liu et al.		
(Use sever	ral sheets if necessary)	Filing Date:	Group:		
	•		1/18/2002		
U.S. PATENT D	OCUMENTS				
Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
7					
	-			 	-
			1	1	
	<u></u>	<u> </u>	T	<u> </u>	
		<u> </u>	T		<u> </u>
	1	1	T		
U.S. PATENT A	-		T	T	1
Examiner's Initials:	Serial Number:	Applicant:	Filing Date:	Group:	Art Unit:
				<u> </u>	
	ENT DOCUMENTS				
Examiner's	Document No.	Country	Date	Translatio	_
Initials				Yes	No
OTHER DOCU	MENTS				
Examiner's Initials	(Including Author, Title	, Date, Pertinent Pag	ges, Etc.)		
	Zhan Bin, et al., Ancylostoma Secreted Protein (ASP-1) Homologues in Human Hookworms, Molecular and Biochemical Parasitology, 98 (1999) 143-149				
	Mark Blaxter, Genes and Genomes of Necator Americanus and Related Hookworms, International Journal for Parasitology, 30 (2000) 347-355				
	Thomas R. Burglin, et al., Caenorhabditis Elegans as a Model for Parasitic Nematodes, International Journal for Parasitology 28 (1998) 395-411				

OIPE	
OCT 1 5 2002 35	Giuseppe Cassata, Rapid Expression Screening of Caenorhabditis Elegans Homeobox Open Reading Frames Using a Two-Step Chain Reaction Promoter-gfp Reporter Construction Technique, Gene 212 (1998) 127-135
TRADEMARY.	Robin B. Gasser, et al., Genomic and Genetic Research on Bursate Nematodes: Significance, Implications and Prospects, <i>International Journal for Parasitology</i> , 30, (2000) 509-534
	Jesus A. Gutierrez, Genomics: From Novel Genes to New Therapeutics in Parasitology, International Journal for Parasitology, 30 (2000) 247-252
	John M. Hawdon, et al., Cloning and Characterization of Ancylostoma-secreted Protein, <i>The Journal of Biological Chemistry</i> , 271 , March 22, 6672-6678, 1996
	J. M. Hawdon, et al., Developmental Adaptions in Nematodes, <i>Parasite Association</i> 1991, 274-298
	John M. Hawdon, et al., Hookworm: Developmental Biology of the Infectious Process, Current Opinion in Genetics & Development, 1996, 6 618-623
	John M. Hawdon, Ancylostoma Secreted Protein 2: Cloning and Characterization of a Second Member of a Family of Nematode Secreted Proteins from Ancylostoma Caninum, <i>Molecular and Biochemical Parasitology</i> , 99 , (1999) 149-165
	High-Throughput Isolation of Caenorhabditis Elegans Deletion Mutants, Genome Research, 9, 859-867
	Peter Hotez, et al., Metalloproteases of Infective Ancylostoma Hookworm Larvae and Their Possible Functions in Tissue Invasion and Ecdysis, Infection and Immunity, <i>American Society for Microbiology</i> , Dec. 1990, 3883-3892 00199567/123883
	Peter Hotez, et al., Molecular Mechanisms of Invasion by Ancylostoma Hookworms, Molecular Approaches to Parasitology, 21-29, 1995 Wiley-Liss, Inc.
	P. Hotez, et al., Hookworm Larval Infectivity, Arrest and Amphiparatenesis: The Caenorhabditis Elegans Daf-c Paradigm, <i>Parasitology Today</i> , 9, No. 1, January 1993
	Richard S. Hussey, et al., Nematode Parasitism of Plants, Department of Plant Pathology University of Georgia
	Iterated Profile Searches with PSI-BLAST – a Tool for Discovery in Protein Databases, Computer Corner TIBS 23 – November 1998
	Detlef H. Kozian, et al., Comparative Gene-Expression Analysis, <i>The Center for Applied Genomics</i>
	Istvan Ladunga, Large-Scale Predictions of Secretory Proteins from Mammalian Genomic and EST Sequences, Current Opinion in Biotechnology, 2000, 11 13-18
	Kris N. Lambert, et al., Cloning and Characterization of an Esophageal-Gland-Specific Chorismate Mutase from the Phytoparasitic Nematode Meloidogyne Javanica, <i>MPMI</i> , 12 , No. 4, 1999, 328-336
	Elizabeth M. Link, Therapeutic Target Discovery Using Caenorhabditis Elegans, Ashley Publication
	Rick M. Maizels, et al., Toxocara Canis: Genes Expressed by the Arrested Infective Larval Stage of a Parasitic Nematode, <i>International Journal for Parasitology</i> , 30 (2000) 495-508)
	D.M. Miller, et al., Two-Color GFP Expression System for C. Elegans, <i>Bio Techniques</i> , 26, 914-921 (May 1999)

OIPE	
OCT 1 5 2002	Huan M. Ngo, et al., Differential Sorting and Post-Secretory Targeting of Proteins in Parasitic Invasion, Cell Biology
TRADEMARY REL	Plant Parasitic Nematodes: Digesting a Page from the Microbe Book, Proc. Natl. Acad. Sci. USA, 95, 4789-4790, April 1998
	Masao Sakaguchi "Eukaryotic protein secretion," Current Opinion in Biotechnology, 1997, 8, 595-601
	Greet Smant et al., "Endogenous Cellulases in Animals: Isolation of B-1,4-Endoglucanase Genes from Two Species of Plant-Parasitic Cyst Nematodes", <i>Proc. Natl. Acad. Sci. USA</i> , 95, 4906, April 1998 Biochemistry
	Marcelo Bento Soares, Identification and Cloning of Differentially Expressed Genes, Current Opinion in Biotechnology 1997, 8, 542-546
	S.A. Williams, et al., The Filarial Genome Project: Analysis of the Nuclear, Mitochondrial and Endosymbiont Genomes of Brugia Malayi, <i>International Journal for Parasitology</i> , 30 (2000) 411-419
	Valerie Moroz Williamson, et al., Nematode Pathogenesis and Resistance in Plants, <i>The Plant Cell</i> , 8 , 1735-1745 1996

3432340_1.DOC